

Project Fact Sheet

CEC / SMUD Regen Project 3.4 Flat Roof Mounting

Approaches

GOALS

The goal of this effort is to develop a modules to easily be mounted on a flat rooftop. The ideal design would eliminate the use of additional ballast materials, or numerous penetrations, although engineering and adherence to appropriate codes must temper these factors. The key considerations would be low cost, ease of assembly, modularity and adaptability to a wide range of uses. At the conclusion of this project, the subcontractor will fabricate prototype hardware and assemble a demonstration of the mounting approach.

The specific objectives are:

- To review the customer requirements for mounting approaches on buildings with flat roofs
- To develop and prototype a design that meets those approaches
- To provide a demonstration of the effectiveness of one of the approaches.



PROJECT DESCRIPTION

Schott Applied Power Corp. (SAPC) will develop a mounting approach for flat roof top installations. SAPC will meet with SMUD to determine necessary design constraints. Next, SAPC will develop and prototype a design. A manufacturing review will be completed after the prototypes have been fabricated. A demonstration array will be constructed to illustrate the completed design.



BENEFITS TO CALIFORNIA

The results of this work should facilitate the use of PV technologies in California. The primary benefits of this work are anticipated to be:

- Greater choice for purchasers of PV systems.
- Reduced cost of installation
- Increased flexibility for deploying PV systems

Through this work, SAPC will develop a flat roof product that will have broad application for general use. Using the basic ballasted design as a starting point, Schott Applied Power will develop a new set of specifications and requirements in conjunction with SMUD. The effort

will be directed towards reducing the ballast requirements and developing a new product that can easily be used by installers. Through this development of an innovative, low cost approach, Schott Applied Power would seek to broaden the possibilities for roof mounted PV systems and increase the adoption of PV as a distributed generation source on commercial roofs. currently available.

FUNDING AMOUNT

Commission: \$ 100,450
Match: \$230,000
Total: \$330,450

PROJECT STATUS

Project is underway.

FOR MORE INFORMATION

Joseph McCabe
California Energy Commission
1516 Ninth Street, MS-43
Sacramento, CA 95814-5504
(916) 654-4412
jmccabe@energy.state.ca.us

Michael Daugherty, Director of Projects,
Schott Applied Power Corp.
1210 Homann Dr SE
Lacey WA 98503
(360) 438-2110 x110
Fax: 360-438-2115
mdaugherty@appliedpower.com

